

## **RAW SEQUENCE LISTING**

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Application Serial Number: 09/910, 483 A  
Source: LEW16  
Date Processed by STIC: 09/19/2005

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1fw16

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/910,483A

DATE: 09/19/2005  
TIME: 10:06:35

Input Set : A:\USSN 09910483 seq listing edit 9-12-05.txt  
Output Set: N:\CRF4\09192005\I910483A.raw

3 <110> APPLICANT: FANG, FANG  
4 KOHLSTAEDT, LORI  
5 RENO, JOHN  
7 <120> TITLE OF INVENTION: HUMANIZED ANTIBODIES  
9 <130> FILE REFERENCE: 014357/027 8772  
11 <140> CURRENT APPLICATION NUMBER: 09/910,483A  
12 <141> CURRENT FILING DATE: 2001-07-19  
14 <160> NUMBER OF SEQ ID NOS: 96  
16 <170> SOFTWARE: PatentIn Ver. 2.1  
18 <210> SEQ ID NO: 1  
19 <211> LENGTH: 116  
20 <212> TYPE: PRT  
21 <213> ORGANISM: Artificial Sequence  
23 <220> FEATURE:  
24 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH Domain  
25 peptide of Hum A  
27 <400> SEQUENCE: 1  
28 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
29 1 5 10 15  
31 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr  
32 20 25 30  
34 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
35 35 40 45  
37 Ala Arg Ile Asp Pro Ala Asn Asp Asn Thr Ile Tyr Ala Asp Ser Val  
38 50 55 60  
40 Lys Gly Arg Phe Thr Ile Ser Ser Asp Asp Ser Lys Asn Thr Ala Tyr  
41 65 70 75 80  
43 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
44 85 90 95  
46 Thr Asp Ser Gly Tyr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val  
47 100 105 110  
49 Thr Val Ser Ser  
50 115  
53 <210> SEQ ID NO: 2  
54 <211> LENGTH: 348  
55 <212> TYPE: DNA  
56 <213> ORGANISM: Artificial Sequence  
58 <220> FEATURE:  
59 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH nucleotide  
60 sequence of Hum A  
62 <400> SEQUENCE: 2  
63 gaagttcaac ttgttgagtc tgggtggcgtt ctgggtcagc cgggtggctc tctgcgcctg 60  
64 tcttgcgcag caagcggttt caacattaag gacacctaca tccattgggt gaggcaagct 120

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cctggagtg ggtggcacgt atcgaccgg caaacgacaa caccattac 180  
gaaggggccg tttactatt tctagcgacg actctaagaa caccgcgtac 240  
ctctctgcg tgccgaggac accgcccgtct actactgcac ggactctggc 300  
tactgggg ccagggcacg cttgtcaccg tctttct 348

NO: 3  
: 108  
PRT  
SM: Artificial Sequence  
E:  
INFORMATION: Description of Artificial Sequence: Synthetic VL Domain  
e of Hum A  
CE: 3  
Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
5 10 15  
Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Asn  
20 25 30  
Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
40 45  
Ser Gln Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly  
55 60  
Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
70 75 80  
Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro Tyr  
85 90 95  
Gln Gly Thr Lys Val Glu Ile Lys Arg  
100 105

NO: 4  
: 324  
DNA  
SM: Artificial Sequence  
E:  
INFORMATION: Description of Artificial Sequence: Synthetic VL nucleotide  
ence of Hum A  
CE: 4  
cgacccaatc tccgtctagc ctgagcgcca gtgttggtga tcgagttacc 60  
cgcccgccca atctatcagt aataatcttc actggtatca aaaaaaaccg 120  
cgaaacttct tatctatcac gcctctcaga gcattagcg 180  
gtctggctc gggcacggac tttaccctta ccatcagctc tcttcagccg 240  
ccaccttata ttgtcagcag tctaatacgct gggcgatac ctteggtaa 300  
ccgagattaa gcgc 324

NO: 5  
: 116  
PRT  
SM: Artificial Sequence  
E:  
INFORMATION: Description of Artificial Sequence: Synthetic VH Domain  
e of Hum B  
CE: 5  
Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly Gly

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 PATENT APPLICATION: US/09/910,483A TIME: 10:06:35

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132 1 5 10 15  
 134 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr  
 135 20 25 30  
 137 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 138 35 40 45  
 140 Ala Arg Ile Asp Pro Ala Asn Asp Asn Thr Ile Tyr Ala Asp Ser Val  
 141 50 55 60  
 143 Lys Gly Arg Phe Thr Ile Ser Ser Asp Asp Ser Lys Asn Thr Ala Tyr  
 144 65 70 75 80  
 146 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 147 85 90 95  
 149 Thr Ala Ser Gly Tyr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val  
 150 100 105 110  
 152 Thr Val Ser Ser  
 153 115  
 156 <210> SEQ ID NO: 6  
 157 <211> LENGTH: 348  
 158 <212> TYPE: DNA  
 159 <213> ORGANISM: Artificial Sequence  
 161 <220> FEATURE:  
 162 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH nucleotide  
 163 sequence of Hum B  
 165 <400> SEQUENCE: 6  
 166 gaagttcaac ttgttgagtc tgggtggcggt ctgggtcagc cgggtggctc tctgcgcctg 60  
 167 tcttgcgcag caagcggtt caacattaag gacacctaca tccattgggt gaggcaagct 120  
 168 cccggtaagg gtctggagtg ggtggcacgt atcgacccgg caaacgacaa caccatttac 180  
 169 gctgacagcg tgaaggggccg ttttactatt tctagcgacg actctaagaa caccgcgtac 240  
 170 cttcagatga actctctgcg tgccgaggac accggcgctc actactgcac ggctctggc 300  
 171 tactggtttgcctactgggg ccagggcacg cttgtcaccg tctcttct 348  
 174 <210> SEQ ID NO: 7  
 175 <211> LENGTH: 108  
 176 <212> TYPE: PRT  
 177 <213> ORGANISM: Artificial Sequence  
 179 <220> FEATURE:  
 180 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VL Domain  
 181 peptide of Hum B  
 183 <400> SEQUENCE: 7  
 184 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 185 1 5 10 15  
 187 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Asn  
 188 20 25 30  
 190 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
 191 35 40 45  
 193 Tyr His Ala Ser Gln Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly  
 194 50 55 60  
 196 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 197 65 70 75 80  
 199 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro Tyr  
 200 85 90 95

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202 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg  
 203 100 105  
 206 <210> SEQ ID NO: 8  
 207 <211> LENGTH: 324  
 208 <212> TYPE: DNA  
 209 <213> ORGANISM: Artificial Sequence  
 211 <220> FEATURE:  
 212 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VL nucleotide  
 sequence of Hum B  
 215 <400> SEQUENCE: 8  
 216 gatatccaga tgaccatac tccgtctagc ctgagcgcca gtgtggtga tcgagttacc 60  
 217 attacttgcg cgcgcagcca atctatcgt aataatcttc actggatca aaaaaacccg 120  
 218 ggtaaagctc cgaaacttct tatctatcac gcctctcaga gcattagcgg cgttccgagc 180  
 219 cgcttctctg gctctggctc gggcacggac tttaccctta ccatcagctc tcttcagccg 240  
 220 gaagacttttgc acaccttata ttgtcagcag tctaatacg tggccgtatac cttcggtcaa 300  
 221 ggtaccaagg tcgagattaa gcgc 324  
 224 <210> SEQ ID NO: 9  
 225 <211> LENGTH: 116  
 226 <212> TYPE: PRT  
 227 <213> ORGANISM: Artificial Sequence  
 229 <220> FEATURE:  
 230 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH Domain  
 peptide of Hum C  
 233 <400> SEQUENCE: 9  
 234 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly Gly  
 235 1 5 10 15  
 237 Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Asn Ile Lys Asp Thr  
 238 20 25 30  
 240 Tyr Ile His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val  
 241 35 40 45  
 243 Ala Arg Ile Asp Pro Ala Asn Asp Asn Thr Ile Tyr Ala Asp Ser Val  
 244 50 55 60  
 246 Lys Gly Arg Phe Thr Ile Ser Gly Asp Asp Ser Lys Asn Thr Ala Tyr  
 247 65 70 75 80  
 249 Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys  
 250 85 90 95  
 252 Thr Thr Ser Gly Tyr Trp Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val  
 253 100 105 110  
 255 Thr Val Ser Ser  
 256 115  
 259 <210> SEQ ID NO: 10  
 260 <211> LENGTH: 348  
 261 <212> TYPE: DNA  
 262 <213> ORGANISM: Artificial Sequence  
 264 <220> FEATURE:  
 265 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH nucleotide  
 sequence of Hum C  
 268 <400> SEQUENCE: 10  
 269 gaagttcaac ttgttgagtc tgggtggcggt ctgggttcagc cgggtggctc tctgcgcctg 60

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270 tcttgcgcag caagcggtt caacattaag gacacctaca tccattgggt gaggcaagct 120  
 271 cccggtaagg gtctggagtg ggtggcacgt atcgaccgg caaaacgacaa caccattac 180  
 272 gctgacagcg tgaagggccg tttactatt tctggcgacg actctaagaa caccgcgtac 240  
 273 cttcagatga actctctgcg tgccgaggac accgcccgtct actactgcac gacccctgtgc 300  
 274 tactggtttgc cctactgggg ccagggcacg cttgtcaccg tctcttct 348  
 277 <210> SEQ ID NO: 11  
 278 <211> LENGTH: 108  
 279 <212> TYPE: PRT  
 280 <213> ORGANISM: Artificial Sequence  
 282 <220> FEATURE:  
 283 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VL Domain  
 284 peptide of Hum C  
 286 <400> SEQUENCE: 11  
 287 Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 288 1 5 10 15  
 290 Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Ser Asn Asn  
 291 20 25 30  
 293 Leu His Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile  
 294 35 40 45  
 296 Tyr His Ala Ser Gln Ser Ile Ser Gly Val Pro Ser Arg Phe Ser Gly  
 297 50 55 60  
 299 Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Pro  
 300 65 70 75 80  
 302 Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro Tyr  
 303 85 90 95  
 305 Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg  
 306 100 105  
 309 <210> SEQ ID NO: 12  
 310 <211> LENGTH: 324  
 311 <212> TYPE: DNA  
 312 <213> ORGANISM: Artificial Sequence  
 314 <220> FEATURE:  
 315 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VL nucleotide  
 316 sequence of Hum C  
 318 <400> SEQUENCE: 12  
 319 gatatccaga tgaccatac tccgtctagc ctgagcgcca gtgtgggtga tcgagttacc 60  
 320 attacttgcg ggcgcaggcca atctatcaatcacttgcgtatca aaaaaaaccg 120  
 321 ggtaaagctc cgaaacttct tatctatcac gcctctcaga gcattagcg cggtccgagc 180  
 322 cgcttctctg gctctggctc gggcacggac tttaccctta ccatcagctc tcttcagccg 240  
 323 gaagactttg ccacottatta ttgtcagcag tctaatacg tggccgtatac cttccgtcaa 300  
 324 ggtaccaagg tcgagattaa ggcc 324  
 327 <210> SEQ ID NO: 13  
 328 <211> LENGTH: 116  
 329 <212> TYPE: PRT  
 330 <213> ORGANISM: Artificial Sequence  
 332 <220> FEATURE:  
 333 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic VH Domain  
 334 peptide of Hum D  
 336 <400> SEQUENCE: 13

**VERIFICATION SUMMARY**

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